

In the Claims

None of the claims have been amended in this paper. A copy of the pending claims is provided for the Examiner's convenience.

1. (Previously Presented) A system for use with jack assemblies including front plug receiving ports and rear electrical card edge contacts comprising:

a chassis having a front and a rear, the chassis including a power bus having a plurality of power plugs for providing electrical power, wherein the power bus further includes a power intake for receiving electrical power, the chassis defining a plurality of jack assembly receiving areas formed at the front of the chassis; and

a plurality of mount apparatus mounted at the rear of the chassis, each of the mount apparatus including a power receptacle for receiving electrical power from one of the plurality of power plugs and a circuit board assembly, each of the mount apparatus including front electrical contacts and rear electrical contacts, the front electrical contacts configured for contacting the rear electrical card edge contacts of the jack assemblies.

2. (Cancelled)

3. (Original) The system of claim 1 wherein the chassis further includes first and second cable guides.

4. (Previously Presented) The system of claim 1 further comprising a plurality of jack assemblies each having front plug receiving ports and rear electrical card edge contacts that are electrically connected to the mount apparatus.

5. (Original) The system of claim 4 wherein the chassis includes slots for retaining the jack assembly.

6. (Previously Presented) The system of claim 1 wherein the mount apparatus includes:

a front cover having a plurality of receptacles;
a back cover having a plurality of through holes; and wherein
the circuit board assembly is sandwiched between the front cover and the back cover, the rear electrical contacts of the mount apparatus including a plurality of pins extending through the holes in the back cover.

7. (Previously Presented) The system of claim 6 wherein the circuit board assembly includes:

a board having a plurality of through holes aligned with the receptacles of the front cover and the through holes of the back cover;

a plurality of contacts retained in a first set of the through holes of the board of the circuit board assembly, a first end of each contact being extended towards and exposed in a corresponding receptacle of the front cover and stopped by the front cover, a second end of each contact being extended towards and projecting toward the back cover;

a plurality of pins retained in a second set of the through holes of the board of the circuit board assembly, a first end of each pin being extended towards and stopped by the front cover, a second end of each pin being extended towards and projected from a corresponding through hole of the back cover; and

a trace electrically connecting each contact to each corresponding pin.

8. (Previously Presented) The system of claim 1 wherein the circuit board assembly includes a circuit board and a plurality of electrical terminals, the electrical terminals including the front electrical contacts of the mount apparatus.

9. (Previously Presented) The system of claim 8 wherein the electrical terminals are adapted for insertion into a through hole of the circuit board, the electrical terminal including:

a first section that receives one of the rear electrical card edge contacts of the jack assembly, the first section including first and second spring arms proximate to each other at a contact point and configured to exert a first spring force to retain the electrical contact;

a second section adapted for insertion into the through hole of the circuit board, the second section including first and second pin members proximate to each other and defining first and second slots configured to exert a second spring force to retain the electrical terminal in the through hole of the circuit board, the second spring force being exerted in a direction perpendicular to the first spring force; and

a third section integral with the first and second sections.

10. (Previously Presented) A system for use with jack assemblies including front plug receiving ports and rear electrical card edge contacts comprising:

a chassis defining a plurality of slots configured to receive top and bottom edges of the jack assemblies;

a plurality of mount apparatus mounted in the chassis, each of the mount apparatus including:

a front cover having a plurality of receptacles including electrical contacts for mating with the rear electrical card edge contacts of the jack assemblies;

a back cover having a plurality of through holes; and

a circuit board assembly sandwiched between the front cover and the back cover, the circuit board assembly including a plurality of pins extending through the holes of the back cover, the circuit board assembly providing electrical communication between the electrical contacts of the front cover and the pins extending through the back cover.

11. (Previously Presented) The system of claim 10 wherein the circuit board assembly includes:

a board having a plurality of through holes aligned with the receptacles of the front cover and the through holes of the back cover;

a plurality of contacts retained in a first set of the through holes of the board of the circuit board assembly, a first end of each contact being extended towards and exposed in a corresponding receptacle of the front cover and stopped by the front cover, a second end of each contact being extended towards and projecting toward the back cover;

a plurality of pins retained in a second set of the through holes of the board of the circuit board assembly, a first end of each pin being extended towards and stopped by the

front cover, a second end of each pin being extended towards and projected from a corresponding through hole of the back cover; and

a trace electrically connecting each contact to each corresponding pin.

12. (Original) The system of claim 11 wherein the chassis further includes first and second cable guides.

13. (Previously Presented) The system of claim 11 further comprising a plurality of jack assemblies each having electrical card edge contacts that are electrically connected to the mount apparatus.

14. (Original) The system of claim 13 wherein the chassis includes slots for retaining the jack assembly.

15. (Previously Presented) A system for use with jack assemblies including front plug receiving ports and rear electrical contacts comprising:

a chassis arranged and configured to retain a plurality of mount apparatuses, the chassis including:

a power bus having a plurality of power plugs for providing electrical power, wherein the power bus further includes a power intake for receiving electrical power; and

a plurality of jack assembly receiving areas;

a plurality of mount apparatus mounted in the chassis, each of the mount apparatus including:

a power receptacle for receiving electrical power from one of the plurality of power plugs;

front electrical contacts and rear electrical contacts, the front electrical contacts configured for contacting the rear electrical contacts of the jack assemblies;

a circuit board assembly having a circuit board with a plurality of through holes, and a plurality of electrical terminals, the electrical terminals including:

a first section configured to exert a first spring force to retain one of the rear electrical contacts of the jack assembly;

a second section adapted for insertion into the through hole of the circuit board, the second section including first and second pin members proximate to each other and defining first and second slots configured to exert a second spring force to retain the electrical terminal in the through hole of the circuit board, the second spring force being exerted in a direction perpendicular to the first spring force.